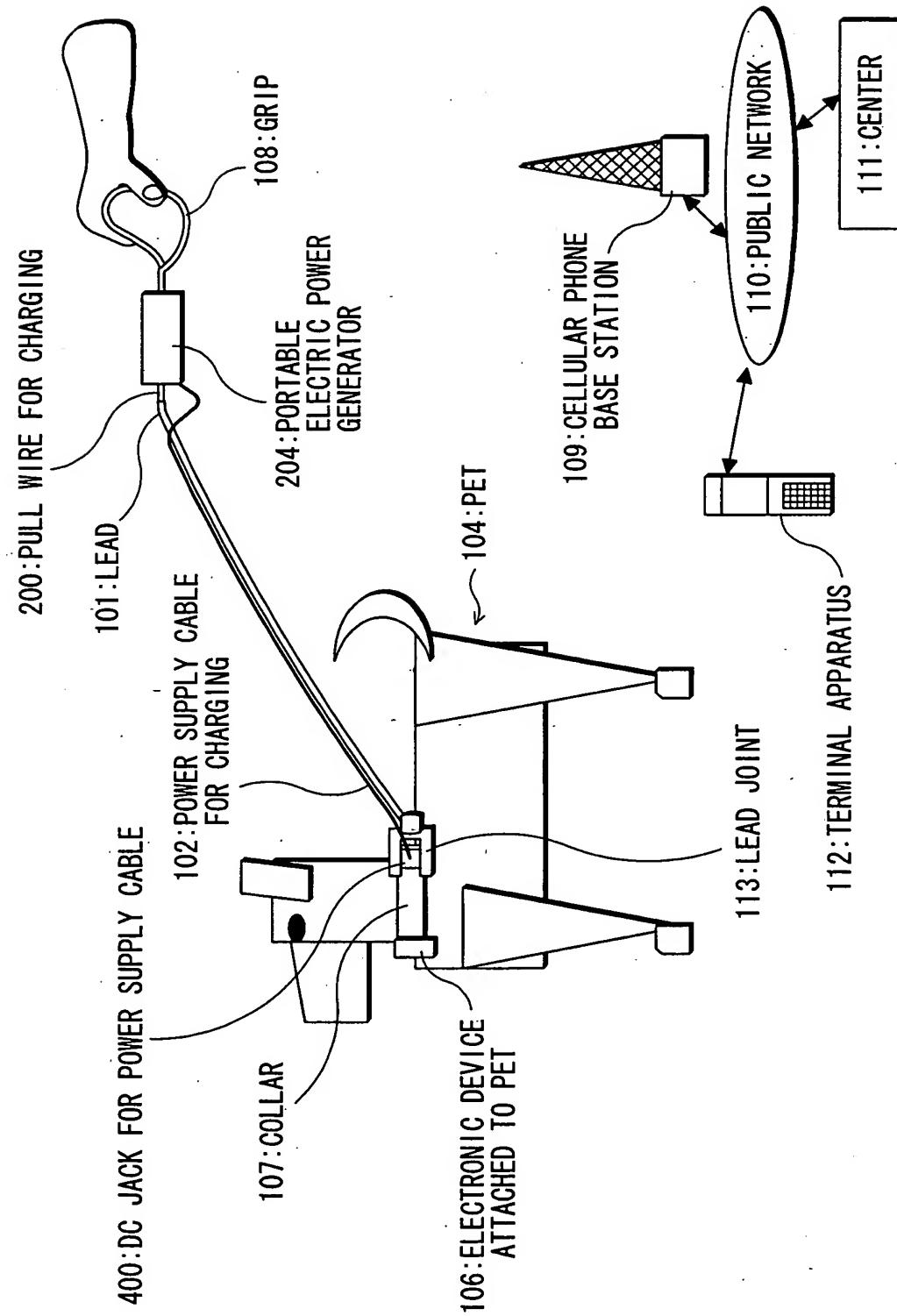


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FIG. 1



**F I G . 2**

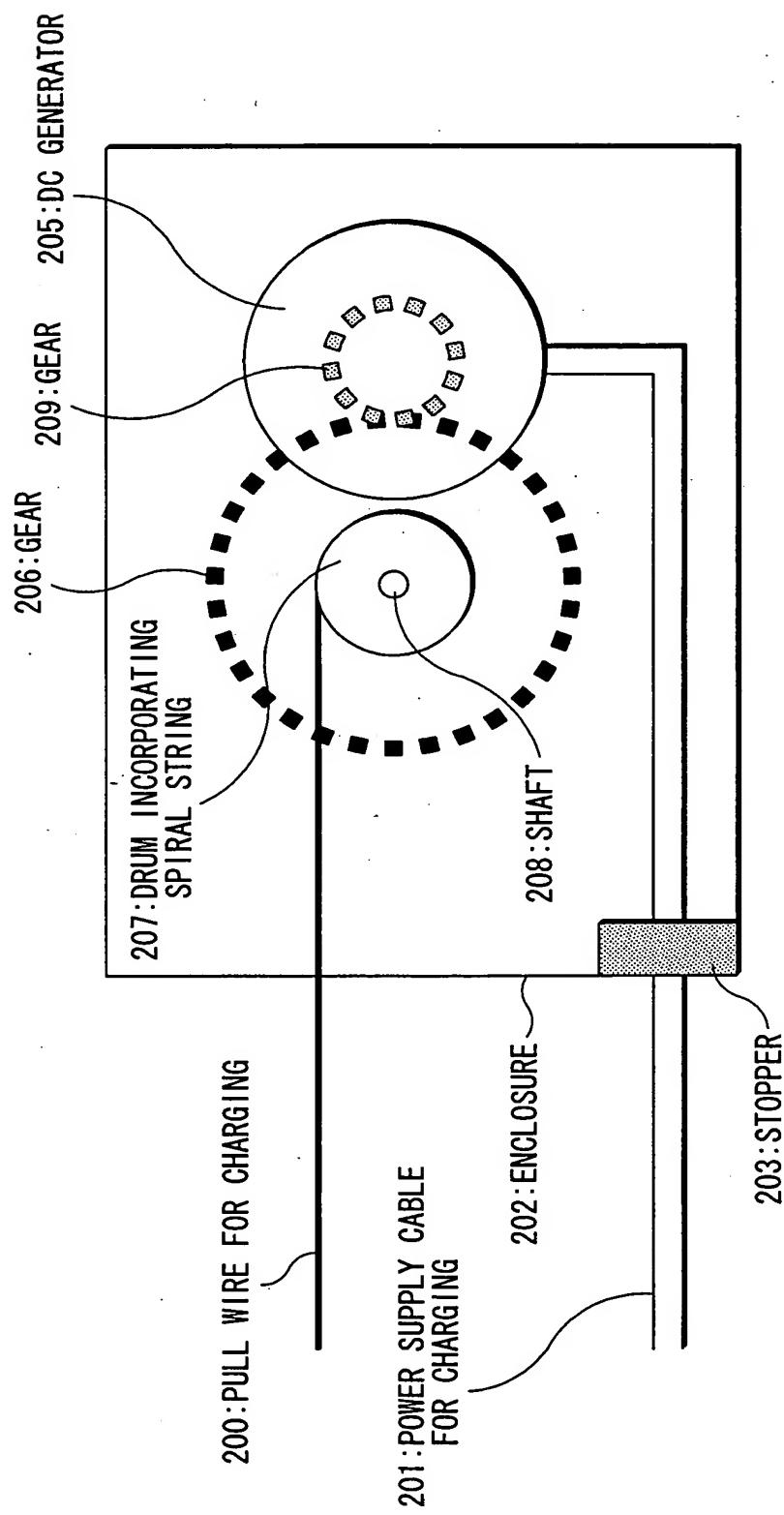
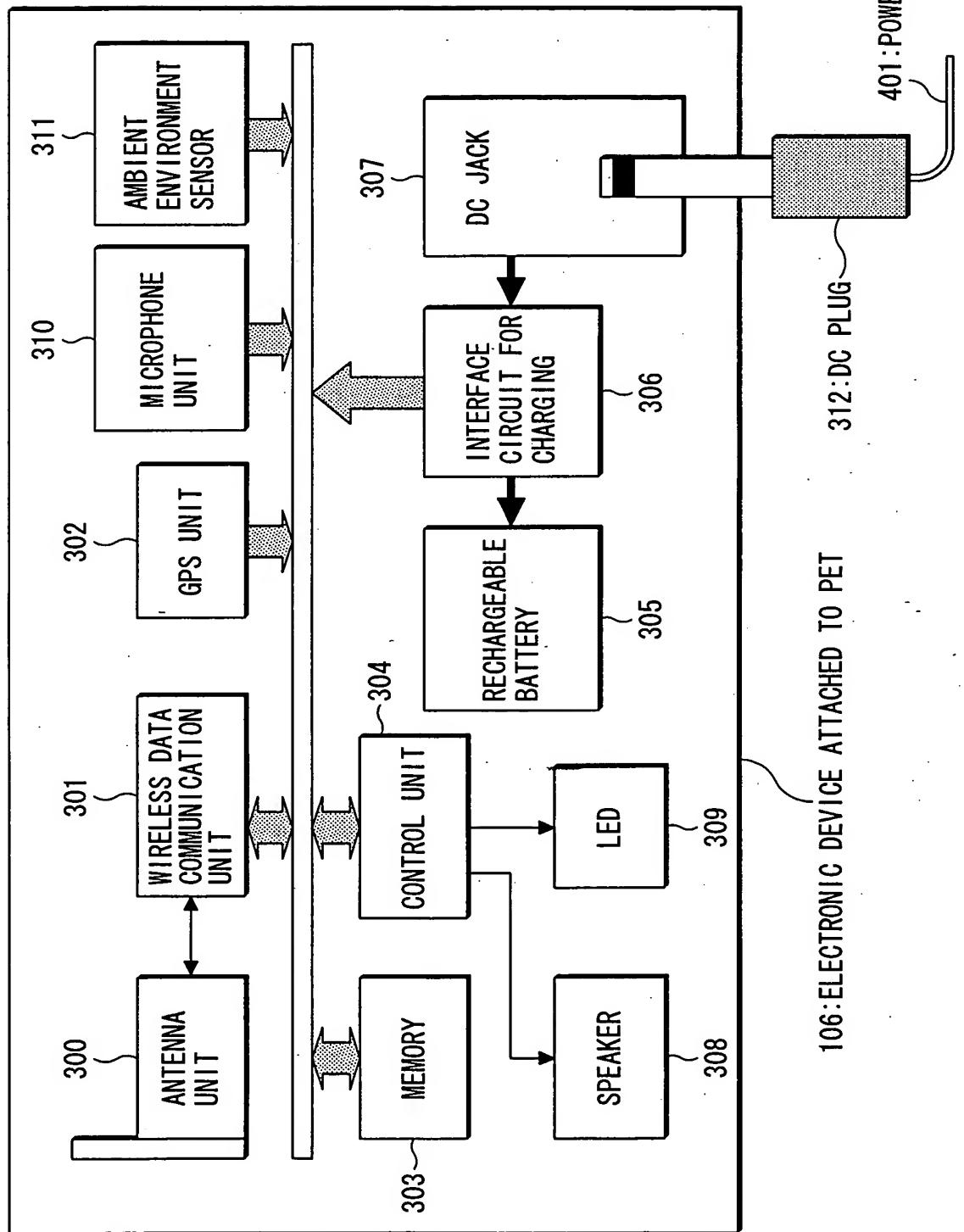
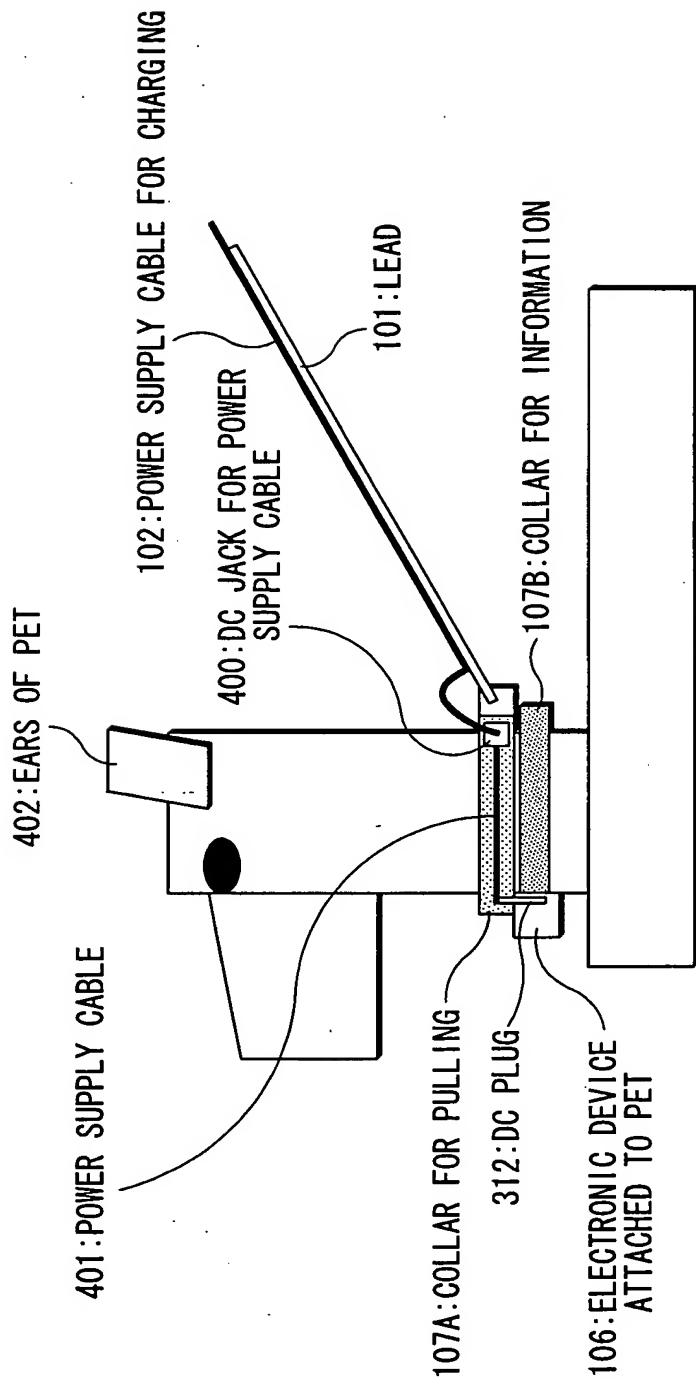


FIG. 3



**F I G . 4**



REMAINING ENERGY  
AMOUNT OF BATTERY

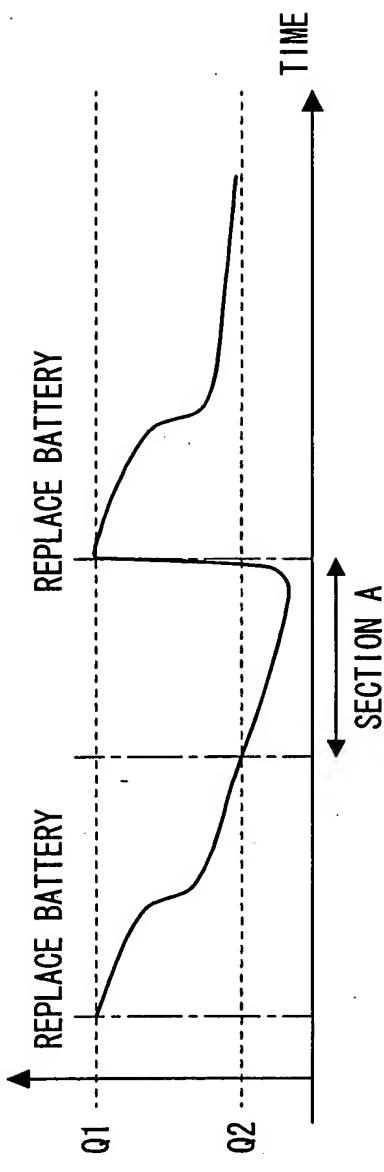


FIG. 5 (a)

REMAINING ENERGY  
AMOUNT OF BATTERY

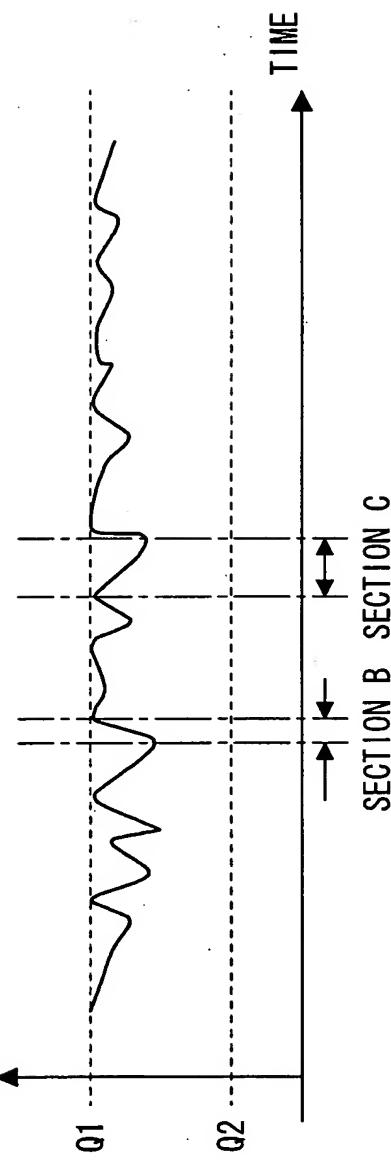
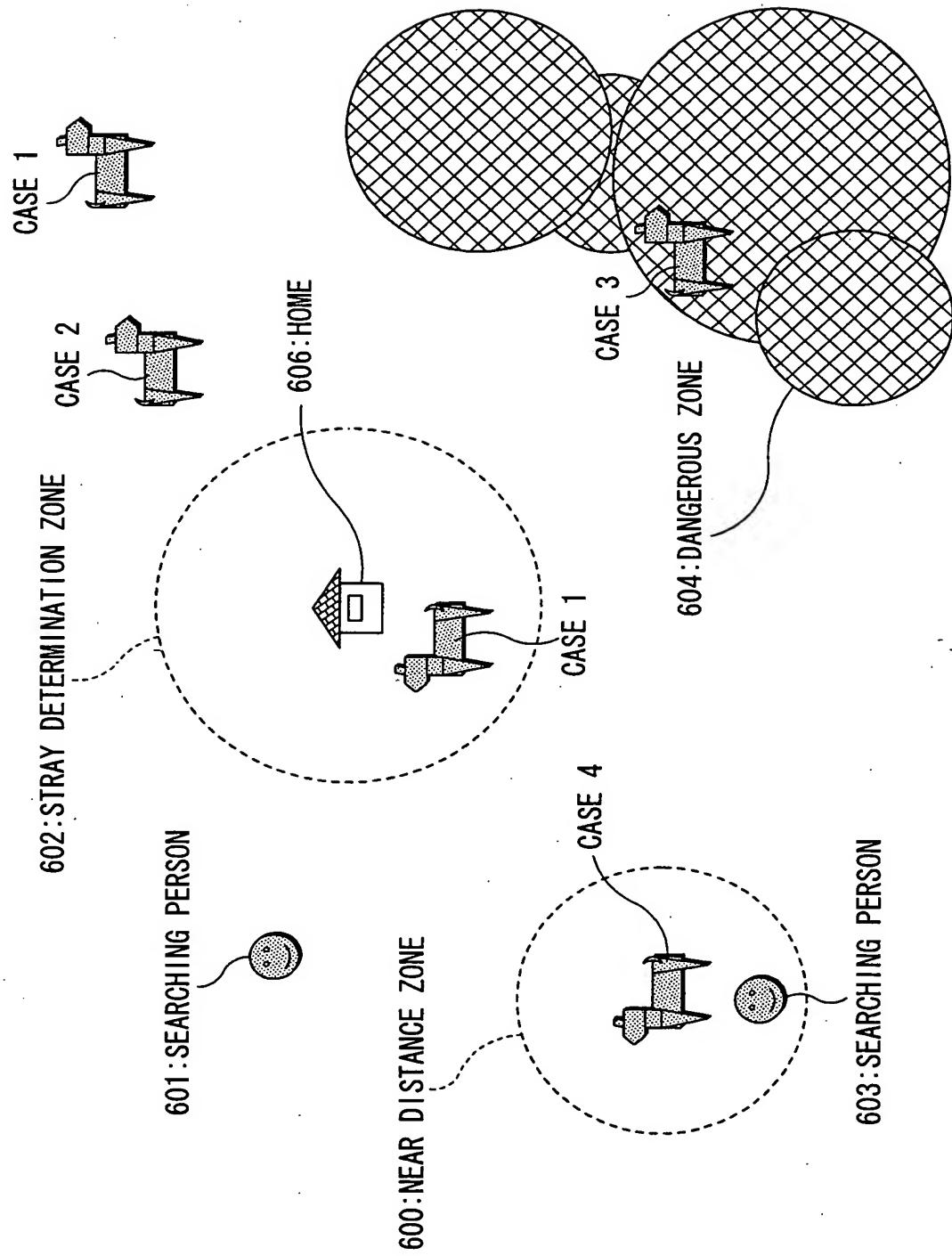


FIG. 5 (b)

**F I G . 6**



## FIG. 7

PARAMETERS FOR OPERATION CONTROL	SIGNIFICANCE OF VALUE, HOW TO DETERMINE VALUE TO BE SET
P1: TIME INTERVAL FOR LOCATION MEASURING WITH GPS	INCREASE THE TIME INTERVAL AS THE REMAINING ENERGY AMOUNT OF THE BATTERY DECREASES. THIS SAVES ELECTRIC POWER.
P2: REFERENCE TRAVEL AMOUNT FOR INVOKING WIRELESS REPORT	INVOKE WIRELESS REPORT IF THE TRAVEL DISTANCE FROM THE MEASURED LOCATION WIRELESSLY REPORTED LAST TIME EXCEEDS THIS REFERENCE TRAVEL AMOUNT. NOTE THAT THE REFERENCE TRAVEL AMOUNT IS SET SMALLER FOR A TRAVEL TOWARD THE DANGEROUS ZONE.
P3: SPEAKER LOUDNESS	IF A SEARCHING PERSON IS NOT PRESENT WITHIN A REFERENCE DISTANCE, THE LOUDNESS IS SET TO ZERO OR THE POWER FOR THE SPEAKER IS TURNED OFF. IF THIS VALUE IS 0, IT INDICATES THE POWER SUPPLY FOR THE SPEAKER IS OFF.  WHEN THE SEARCHING PERSON IS PRESENT WITHIN THE REFERENCE DISTANCE, THE POWER SUPPLY FOR THE SPEAKER IS SET TO ON, AND THE LOUDNESS IS SET TO A SPECIFIED VALUE.
P4: LIGHT EMITTING POWER OF LED	IF A SEARCHING PERSON IS NOT PRESENT WITHIN A REFERENCE DISTANCE, THE LIGHT EMITTING POWER IS SET TO ZERO OR THE POWER SUPPLY FOR THE LED TURNED OFF. IF THIS VALUE IS 0, IT INDICATES THE POWER SUPPLY FOR THE LED IS OFF. IF THE SEARCHING PERSON IS PRESENT WITHIN THE REFERENCE DISTANCE, AND THE AMBIENT BRIGHTNESS IS LESS THAN A REFERENCE VALUE, THE POWER FOR LED IS TURNED ON AND THE LIGHT EMITTING POWER IS SET TO A SPECIFIED VALUE.
P5: TYPE OF SOUND GENERATED BY SPEAKER	SELECTS THE TYPE OF THE SOUND WITH THE FREQUENCY AND THE SOUND GENERATION PATTERN EASILY DISTINGUISHABLE FROM THE AMBIENT NOISE.
P6: TYPE OF LED LIGHT EMITTING PATTERN	SELECTS THE TYPE HAVING THE WAVELENGTH AND THE LIGHT EMITTING PATTERN EASILY DISTINGUISHABLE FROM THE AMBIENT NOISE LIGHT.
P7: WHETHER SOUND DATA FROM MICROPHONE IS TRANSMITTED	1: TRANSMIT SOUND DATA 0: DO NOT TRANSMIT SOUND DATA  THOUGH IT IS IMPORTANT SINCE IT IS CLUE TO THE SAFETY AND THE WHEREABOUTS OF THE PET, THE TRANSMISSION REQUIRES LARGE ELECTRIC POWER CONSUMPTION, AND IT IS SET TO THE VALUE INDICATING DATA TRANSMISSION WHEN THE BATTERY HAS A SUFFICIENT REMAINING ENERGY AMOUNT.
P8: WHETHER SENSING INFORMATION FROM AMBIENT ENVIRONMENT SENSOR IS TRANSMITTED	1: TRANSMIT SENSING INFORMATION 0: DO NOT TRANSMIT SENSING INFORMATION  THOUGH IT IS IMPORTANT SINCE IT IS CLUE TO THE SAFETY AND THE WHEREABOUTS OF THE PET, THE TRANSMISSION REQUIRES LARGE ELECTRIC POWER CONSUMPTION, AND IT IS SET TO THE VALUE INDICATING DATA TRANSMISSION WHEN THE BATTERY HAS A SUFFICIENT REMAINING ENERGY AMOUNT.